Table 2. Approximate Magnitude of Water Level Fluctuations and Net Water Level Change for the 3M Evaluation Period

3M Program Monitoring Well Group Number	Well Name	Short-Duration Water Level Fluctuation[a] (ft)	Estimated Net Change in Water Level For Evaluation Period[b] (ft)	Notes[c]
Group 1	LBF-01	0.4	0.1	1, 2
	LBF-01d	0.4	0.2	1, 2
	LBF-02	0.3	0.1	1, 2
	LBF-02d	0.3	0.2	1, 2
	LBF-03	0.3	-0.1	1, 2
	LBF-04	0.6	0.0	1, 2
Group 2	AP-11	0.4	-35.9	1, 2, 9
	AP-12	0.1	>-47.8	3, 10
	AP-20	0.2	-2.2	1, 2
	AP-22	0.4	-4.6	1, 2, 5, 9
	AP-23	0.2	0.0	1, 2
	AP-24	0.4	36.6	1, 2, 4
	AP-26	0.2	-0.2	1, 2
	AP-27	0.4	0.0	1, 2
	AP-28	0.2	0.0	1, 2
	AP-29	0.4	0.2	1, 2
	AP-30	1.4	-5.3	1, 2
	AP-34	0.4	-1.0	1, 2
	DPW-01/GI-T21	0.4	-42.3	1, 2
	DPW-03	0.2	-3.1	1, 2
	DPW-07	0.4	-0.1	1, 2
	DPW-08	1.0	0.2	1, 2
	DPW-10	0.5	0.2	1, 2, 6
	DPW-11	0.5	0.0	1, 2
	DPW-12	0.7	0.2	1, 2
	DPW-13	0.8	0.1	1, 2
	DPW-15	0.4	-0.2	1, 2
	DPW-16	0.4	-0.7	1, 2
Group 3	AP-01	0.4		5
	AP-02	1	-11.0	6, 11
	AP-3A	---		7
	AP-09	6	-1.0	2
	AP-10	0.4	-13.5	1, 2
	AP-21	5		5
	AP-25	10	-8.1	2, 8, 9
	AP-32	0.4	-22.0	1
	DPW-05	0.3	-39.5	5
	DPW-06	0.4	-3.5	1, 2
Group 4	GI-T18	0.4	-102.7	1,14
	GI-T20	0.6	-8.0	1, 2
	GI-T25	0.5	4.7	6, 12
	GI-T34	0.5	-38.1	1, 2
	GI-T38	0.4	-3.1	1, 2
Group 5	G5-01A	0.4	-5.4	1, 2, 13
	G5-01B	3.5	-5.5	1, 2

3M Program Monitoring Well Group Number	Well Name	Short-Duration Water Level Fluctuation[a] (ft)	Estimated Net Change in Water Level For Evaluation Period[b] (ft)	Notes[c]
Group 5	G5-02	0.3	1.6	1, 2
	RB-1	0.5	-0.4	1, 2, 6

[a] Short duration fluctuations are representative of less than one day to several days. Fluctuations are approximate values based on data collected prior to August 2007 (pre-mining).

[b] Water-level change equals the average or representative water level for the month preceding the start of mining (July 2007) subtracted from the water level for last month of the 3M evaluation period (June 2013). A negative value indicates that the June 2013 water level is lower than the July 2007 water level.

[c] Notes:

1. Water-level trend (rising or falling) established prior to start of mining
2. Natural fluctuation (a or b) is larger than estimated change (c).
3. Located near pumping wells GI-P1 and GI-P4.
4. Unusual water level trend or fluctuations.
5. Water level is strongly influenced by water chemistry sampling events; recovery takes 1 to 2 (or more) years.
6. Unusual water level fluctuations.
7. Insufficient data.
8. Water level influenced by sampling.
9. Well is sampled as part of the Aquifer Protection Permit program.
10. After 7/29/09, the water level at AP-12 declined below the bottom of the monitored interval.
11. The 20-foot rise before mine pumping started correlates with an 18-month wet period starting June 2006 (previous 16-months drier), and may be related to construction activities
12. Water level is likely influenced by construction of diversion channel at this location that may have created a zone through which infiltration of ponded water is enhanced. Sharp water level rise in June of 2007 correlates with precipitation events starting on June 11th, 2007.
13. The 12-foot drop (as of June 2010) started at well construction and may be an artifact of drilling.
14. The value for the “Estimated Change in Water Level for Evaluation Period” has been identified as an outlier among the Group 4 wells (see Section 4.2, Water Levels)